

CORRECTED VERSION

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number  
**WO 2005/080820 A1**

(51) International Patent Classification<sup>7</sup>: **F16G 1/28**

(21) International Application Number:  
PCT/IT2004/000533

(22) International Filing Date:  
29 September 2004 (29.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
PCT/IT2004/000081  
23 February 2004 (23.02.2004) IT

(71) Applicant (for all designated States except US): **DAYCO EUROPE S.R.L. CON UNICO SOCIO** [IT/IT]; Zona Industriale Vallecupa, I-64010 Colonnella (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BALDOVINO,**

**Carlo** [IT/IT]; Via Chiappinello, 11, I-65016 Montesilvano (IT). **DI MECO, Marco** [IT/IT]; Via Strada Vecchia Fontanelle, 83, I-65129 Pescara (IT). **DI GIACOMO, Tommaso** [IT/IT]; Via Gamberale, 25, I-66010 S. Martino Sulla Marrucina (IT). **PETACCIA, Marino** [IT/IT]; Via Colle Arso, 6, I-65020 Lettomanoppello (IT).

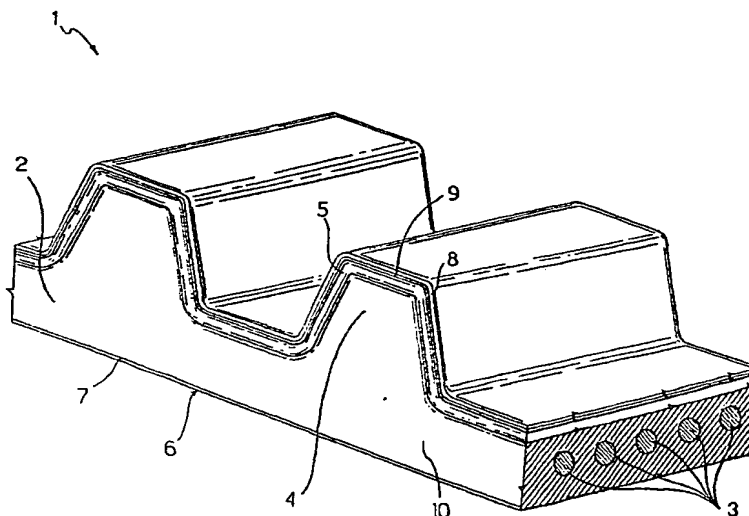
(74) Agents: **JORIO, Paolo** et al.; c/o Studio Torta S.r.l., Via Viotti, 9, I-10121 Torino (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: **TOOTHED BELT FOR USE WITH OIL AND RELATIVE TIMING CONTROL SYSTEM**



(57) Abstract: Toothed belt (1) for use with oil comprising a body and a plurality of teeth (4) extending from at least a surface of the body; the teeth are covered by a coating fabric (5). The toothed belt comprises a plurality of resistant inserts (3) produced from at least a first and a second material. Preferably, the resistant inserts are constituted by glass fibres and carbon fibres. Preferably, a resistant layer (8) is made to adhere over the coating fabric (5), said layer comprising a fluorine based plastomer with the addition of an elastomeric material, wherein the plastomer is present in a greater amount than the elastomeric material. The elastomeric material forming the body of the belt is preferably a copolymer obtained from a diene monomer and a monomer containing nitrile groups, wherein the nitrile groups are between 33% and 49%, preferably 39 weight % with respect to the copolymer.



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

**(48) Date of publication of this corrected version:**

1 December 2005

**(15) Information about Correction:**

see PCT Gazette No. 48/2005 of 1 December 2005, Sec-  
tion II

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*